

ABSTRACT

A communication system using fast macrodiversity switching (FMS) and frequency hopping (FH) for wireless signals including downlink signals to and uplink signals from mobile stations. Frequency hopping sequences are determined for the uplink and downlink signals for the mobile stations. A plurality of transceiver stations employ broadcast channels and dedicated channels for communications with the mobile stations. A zone manager controls fast macrodiversity switching of dedicated channels among the mobile stations while broadcast channels remain unswitched. The zone manager extracts frequency hopping information to form predictions of dedicated channel collisions, and based upon the predictions, controls the dynamic switching of dedicated channels to avoid collisions.

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